

## IN THE SPECIFICATION

Page 1, in the heading, please cancel "tesa...Description".

Page 1, before the first line of text, please insert:

--This is a 371 of PCT/EP2004/053309 filed 7 December 2004 (international filing date).--

Page 1, line 11, please insert:

--Background of the invention--

Paragraph beginning on page 2, line 23, please delete.

Page 2, line 25, please insert:

--Summary of the invention--

Page 3, line 2, please insert:

--Detailed description--

Page 3, line 26, please insert:

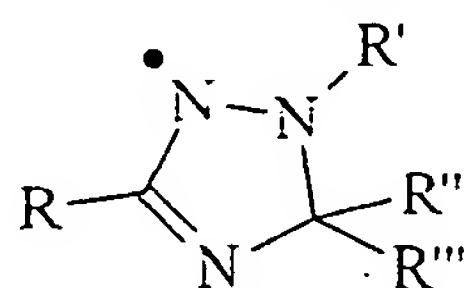
--Brief description of the drawings--

Paragraph beginning on page 5, line 19 (amended):

Moderate basic monomers are, for example, N,N-dialkyl-substituted amides, such as N,N-dimethylacrylamide, ~~N,N-dimethylmethacrylamide~~ **N,N-dimethylmethacrylamide**, N-tert-butylacrylamide, N-vinylpyrrolidone, N-vinyl lactam, dimethylaminoethyl methacrylate, dimethylaminoethyl acrylate, diethylaminoethyl methacrylate, diethylaminoethyl acrylate, N-methylolmethacrylamide, ~~N-(butoxymethyl)methacrylamide~~ **N-(butoxymethyl)methacrylamide**, N-methylolacrylamide, N-(ethoxymethyl)acrylamide, and N-isopropylacrylamide, this enumeration not being conclusive.

Paragraph beginning on page 6, line 24 (amended):

For the polymerization process by controlled free-radical addition polymerization it is preferred to use a control reagent of the general formula:



(I)

in which

- R, R', R'', R''' are chosen independently of one another or are the same and represent
  - branched and unbranched C<sub>1</sub>- to C<sub>18</sub> alkyl radicals; C<sub>3</sub>- to C<sub>18</sub> alkenyl radicals; C<sub>3</sub>- to C<sub>18</sub> alkynyl radicals;
  - H or C<sub>1</sub>- to C<sub>18</sub> alkoxy;
  - C<sub>3</sub>- to C<sub>18</sub> alkenyl radicals; C<sub>3</sub>- to C<sub>18</sub> alkynyl radicals; C<sub>1</sub>- to C<sub>18</sub> alkyl radicals, substituted by at least one OH group or a halogen atom or a silyl ether;
  - C<sub>2</sub>-C<sub>18</sub> hetero-alkyl radicals having at least one oxygen atom and/or one NR' group in the carbon chain;
  - C<sub>3</sub>-C<sub>18</sub> alkenyl radicals, C<sub>3</sub>-C<sub>18</sub> alkynyl radicals, C<sub>1</sub>-C<sub>18</sub> alkyl radicals, substituted by at least one ester group, amino group, carbonate group, cyano, isocyano and/or epoxide group and/or by sulfur;
  - C<sub>3</sub>-C<sub>12</sub> cycloalkyl radicals;
  - C<sub>6</sub>-C<sub>10</sub> aryl radicals; or
  - hydrogen;

or

- R'' and R''' are joined to one another in the form of ~~spiro~~ spiro compounds.

Paragraph beginning on page 8, line 10 (amended):

Examples of C<sub>6</sub>-C<sub>10</sub> aryl radicals include phenyl, naphthyl, benzyl or further-substituted phenyl, such as ethyl phenyl, toluene, xylene, mesitylene, isopropylbenzene, dichlorobenzene or bromotoluene, for example.

Paragraph beginning on page 9, line 14 (amended):

As controlled regulators for the polymerization it is additionally possible to use the following compounds:

- 2,2,5,5-tetramethyl-1-pyrrolidinyloxy (PROXYL), 3-carbamoyl-PROXYL, 2,2-dimethyl-4,5-cyclohexyl-PROXYL, 3-oxo-PROXYL, 3-hydroxyimine-PROXYL, 3-aminomethyl-PROXYL, 3-methoxy-PROXYL, 3-tert-butyl-PROXYL, 3,4-di-tert-butyl-PROXYL
- ~~2,2,6,6-tetramethyl-1-piperidinyloxy~~~~pyrrolidinyloxy (TEMPO)~~ 2,2,6,6-tetramethyl-1-piperidinyloxy (TEMPO), 4-benzoyloxy-TEMPO, 4-methoxy-TEMPO, 4-chloro-TEMPO, 4-hydroxy-TEMPO, 4-oxo-TEMPO, 4-amino-TEMPO, 2,2,6,6-tetraethyl-1-piperidinyloxy, 2,2,6-trimethyl-6-ethyl-1-piperidinyloxy
- N-tert-butyl 1-phenyl-2-methylpropyl nitroxide
- N-tert-butyl 1-(2-naphthyl)-2-methylpropyl nitroxide
- N-tert-butyl 1-diethylphosphono-2,2-dimethylpropyl nitroxide
- N-tert-butyl 1-dibenzylphosphono-2,2-dimethylpropyl nitroxide
- N-(1-phenyl-2-methylpropyl) 1-diethylphosphono-1-methylethyl nitroxide
- di-tert-butyl nitroxide
- diphenyl nitroxide
- tert-butyl tert-amyl nitroxide

Paragraph beginning on page 11, line 1 (amended):

The average molecular weights M<sub>w</sub> (weight averages) of the PSAs formed in the controlled free-radical addition polymerization are chosen such as to lie within a range from 50 000 ~~and to~~ 1 500 000; specifically for further use as heat-activable adhesive tapes, PSAs are prepared that have an average molecular weight of 200 000 to

1 000 000. The average molecular weight is determined by way of gel permeation chromatography (GPC) or matrix-assisted laser desorption/ionization coupled with mass spectrometry (MALDI-MS).

Paragraph beginning on page 13, line 33 (amended):

Carrier materials used for the PSA, for adhesive tapes for example, are the typical materials familiar to the skilled worker, such as films (polyester, PET, ~~PE~~ PE, PP, BOPP, PVC), nonwovens, foams, woven fabrics, and woven films, and also release paper (glassine, HDPE, LDPE). This enumeration is not conclusive.

Paragraph beginning on page 16, line 15 (amended):

$^1\text{H}$  NMR ( $\text{CDCl}_3$ )  $\delta$  (ppm) : 7.20-7.40 (m, 10 H), 1.53, 1.59 (2 x d, 6 H), 3.71, ~~3.81~~ 3.81 (2 x m, 2 H).